

Appln. Serial No. 10/757,757
Amendment Dated February 16, 2007
Reply to Restriction Requirement Mailed January 17, 2007

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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. – 11. (Cancelled)
- 1 12. (Original) A method comprising:
2 receiving device information from a plurality of interface controllers operatively
3 associated with storage system devices;
4 generating a logical map identifying at least some of the storage system devices based on
5 the device information; and
6 assigning the logical map to at least one host for access to the storage system devices.
- 1 13. (Original) The method of claim 12 further comprising aggregating configuration
2 information from each of the storage system devices for the logical map.
- 1 14. (Original) The method of claim 12 further comprising propagating management
2 commands to each of the plurality of interface controllers.
- 1 15. (Original) The method of claim 12 further comprising routing transactions from the at
2 least one host to at least one of the interface controllers.
- 1 16. (Original) The method of claim 12 further comprising formatting transactions from the at
2 least one host for a designated interface controller.
- 1 17. (Original) The method of claim 12 further comprising scheduling access by the at least
2 one host to the storage system devices.
- 1 18. (Original) The method of claim 12 further comprising identifying the storage system
2 devices in the logical map as logical units (LUNs).
- 1 19. – 20. (Cancelled)

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1 21. (Currently Amended) A storage network comprising:
2 an automated storage system including data access drives and transfer robotics;
3 a plurality of interface controllers operatively associated with the data access drives and
4 transfer robotics;
5 an interface manager communicatively coupled to each of the plurality of interface
6 controllers, the interface manager to generate a logical map of the automated storage system
7 based on aggregating configuration information for the data access drives and transfer robotics;
8 and
9 a pipeline provided as computer readable program code in computer-readable storage at
10 the interface manager, the pipeline including:
11 a command router to format transactions for the interface controllers;
12 a management application program interface (API) to generate management
13 commands for the plurality of interface controllers; and
14 a device manager to communicate with the plurality of interface controllers.

1 22. (Original) The storage network of claim 21 wherein the management API generates at
2 least the following management commands: reboot, interrogate, and status.

1 23. (Cancelled)

1 24. (Original) The storage network of claim 21 wherein the management API schedules
2 access to the data access drives and transfer robotics.

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1 25. (New) An interface manager for use in a storage system, comprising:
2 at least a first port to communicate with controllers operatively associated with storage
3 system devices of the storage system;
4 at least one network port to communicate with a host external to the storage system; and
5 at least one control element to:
6 receive device information from the controllers,
7 generate at least one logical map based on the received device information, and
8 assign the at least one logical map to the host to allow the host to access one or
9 more of the storage system devices.

1 26. (New) The interface manager of claim 25, wherein the received device information
2 includes at least one of numbers and types of storage system devices connected to the controllers,
3 and capacities of storage system devices in the storage system.

1 27. (New) The interface manager of claim 25, wherein the at least one control element
2 includes a pipeline to route management commands to the controllers.

1 28. (New) The interface manager of claim 25, wherein the at least one control element
2 includes a command router to format transactions for the controllers.

1 29. (New) The interface manager of claim 25, wherein the at least one control element
2 includes a management application program interface (API) to generate management commands
3 for the controllers.

1 30. (New) The interface manager of claim 29, wherein the management API schedules
2 access to data access drives and transfer robotics.

1 31. (New) The interface manager of claim 25, wherein the storage system devices include
2 data access drives and transfer robotics, and wherein the data access drives and transfer robotics
3 are identified by a fibre channel port and logical units (LUNs) in the logical map.

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1 32. (New) The interface manager of claim 25, further comprising a user interface to allow
2 access of the at least one logical map to enable administrator modification of the at least one
3 logical map.

1 33. (New) The interface manager of claim 25, wherein the at least one control element is
2 configured to further:
3 monitor for a change in a state of the storage system devices; and
4 in response to the change, modify the at least one logical map.